

Exercise 1 A shoe salesperson is paid \$250 per week plus 3% commission on her weekly sales of x dollars.

- (a) A linear function that represents her total weekly pay, W (in dollars) in terms of x is $W(x) = \boxed{.03x + 250}$.
 - (b) In order for her to earn \$445 for the week, her weekly sales must be \$ $\boxed{6500}$.
 - (c) The drapery department at her store has an open sales position that only pays \$200 per week, but pays out 5% commission on sales. What is the minimum amount of sales she would have to sell in a week to make more money at the drapery sales job than the shoe sales job? \$ $\boxed{2500}$
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